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1	42135	((server or host) and map and or (gps or coordinates or position or (latitude and longitude and altitude))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/08 15:35
2	1436	(((server or host) and map and or (gps or coordinates or position or (latitude and longitude and altitude)) and bubble	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/08 15:36
3	420	(((server or host) and map and (gps or coordinates or position or (latitude and longitude and altitude)) and bubble) and ((business or company or corporat$5 or shop or store) with (information or abstract or clip or summary))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/08 15:37
4	332	((((server or host) and map and (gps or coordinates or position or (latitude and longitude and altitude)) and bubble) and ((business or company or corporat$5 or shop or store) with (information or abstract or clip or summary)) and range	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/08 15:37
5	193	(((((server or host) and map and (gps or coordinates or position or (latitude and longitude and altitude)) and bubble) and ((business or company or corporat$5 or shop or store) with (information or abstract or clip or summary)) and range) and (database or data?base)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/08 15:38

Hits	Search Text	DBs	Time Stamp
129	((((((((server or host) and map and (gps or coordinates or position or (latitude and longitude and altitude))) and (business or company or corporat$5 or shop or store) with (information or abstract or clip or summary))) and range) and (database or data?base)) and ((query or queries or querying or select$3 or pointing or clicking) with (location or coordinates or position or gps or (latitude and	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/08 15:44
96	((((((((server or host) and map and (gps or coordinates or position or (latitude and longitude and altitude))) and (business or company or corporat$5 or shop or store) with (information or abstract or clip or summary))) and range) and (database or data?base)) and ((query or queries or querying or select$3 or pointing or clicking) with (location or coordinates or position or gps or (latitude and	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/08 15:44
8	("6424933" "6263343" "6199014" "6148260" "6202023" "6240425" "6363392" "5839088").did.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/09 13:48
8	("6424933" "6263343" "6199014" "6148260" "6202023" "6240425" "6363392" "5839088").did.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/09 13:55
2	6263343.uref.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/09 13:55

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10	1948	(online or on?line or internet or web or www) near3 map$4	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/09 13:57
11	752	((online or on?line or internet or web or www) near3 map$4) and ((poi or (point adj of adj interest) or company or business or shop or corporat$3 or landmark or restaurant or hotel or establishment) with (information or info or summary or url or ((web or www or internet or IP) adj address) or	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/09 14:02
12	173	(((online or on?line or internet or web or www) near3 map$4) and ((poi or (point adj of adj interest) or company or business or shop or corporat$3 or landmark or restaurant or hotel or establishment) with (information or info or summary or url or ((web or www or internet or IP) adj address) or ((highlight$3 or select$3 or pick$3 or point$3 or click$3 or indicat$3) near3 (coordinates or location or address or building or landmark or business or company or shop or store!)))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/09 14:05

Hits	Search Text	DBs	Time Stamp
13 101	((((online or on?line or internet or web or www) near3 map$4) and ((poi or (point adj of adj interest) or company or business or shop or corporat$3 or landmark or restaurant or hotel or establishment) with (information or info or summary or url or ((web or www or internet or IP) adj address) or bubble))) and (map! same ((highlight$3 or select$3 or pick$3 or point$3 or click$3 or indicat$3) near3 (coordinates or location or address or building or landmark or business or company or shop or store!)))) and latitude and longitude	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/09 14:05

Hits	Search Text	DBs	Time Stamp
14 20	((((((online or on?line or internet or web or www) near3 map$4) and ((poi or (point adj of adj interest) or (point adj interest) or company or business or shop or corporat$3 or landmark or restaurant or hotel or establishment) with (information or info or summary or url or ((web or www or internet or IP) adj address) or bubble))) and (map! same ((highlight$3 or select$3 or pick$3 or point$3 or click$3 or indicat$3) near3 (coordinates or location or address or building or landmark or business or company or shop or store!)))) and latitude and longitude) and altitude	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/09 15:05

Hits	Search Text	DBs	Time Stamp
66	((((((online or on?line or internet or web or www) near3 map$4) and ((poi or (point adj of adj interest) or company or business or shop or corporat$3 or landmark or restaurant or hotel or establishment) with (information or info or summary or url or ((web or www or internet or IP) adj address) or bubble))) and (map! same ((highlight$3 or select$3 or pick$3 or point$3 or click$3 or indicat$3) near3 (coordinates or location or address or building or landmark or business or company or shop or store!)))) and latitude and longitude) and @ad<=2001 0627	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/09 17:42
426	(map same server) and (map same (coordinates or (latitude and longitude))) and latitude and longitude	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/09 17:43

15

16

Hits	Search Text	DBs	Time Stamp
17 257	((map same server) and (map same (coordinates or (latitude and longitude)) and ((poi or (point adj of adj interest) or company or corporat$3 or shop or store! or restaurant or hotel or landmark) near5 (information or info or summary or abstract or url or ((web or www or internet or IP) adj address)))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/09 17:45
18 66	(((map same server) and (map same (coordinates or (latitude and longitude)) and ((poi or (point adj of adj interest) or business or company or corporat$3 or shop or store! or restaurant or hotel or landmark) near5 (information or info or summary or abstract or url or ((web or www or internet or IP) adj address)))) and (((select$3 or highlight$3 or click$3 or cursor) near3 (building or landmark or store! or shop or area or point! or business or object or stucture)) with map)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/09 17:49

	Hits	Search Text	DBs	Time Stamp
19	36	(((((map same server) and (map same (coordinates or (latitude and longitude))) and latitude and longitude) and ((poi or (point adj of adj interest) or business or company or corporat$3 or shop or store! or restaurant or hotel or landmark) near5 (information or info or summary or abstract or url or ((web or www or internet or IP) adj address))) and (((select$3 or highlight$3 or click$3 or cursor) near3 (building or landmark or store! or shop or area or point! or business or object or stucture)) with map))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/09 17:49
20	9994	(707/1 707/3 707/4 707/104$2 701/200 701/201 701/206 701/208).ccls.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/09 18:59
21	1625	((707/1 707/3 707/4 707/104$2 701/200 701/201 701/206 701/208).ccls.) and map$4 and ((latitude and longitude) or coordinates!)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/09 19:00

Hits	Search Text	DBs	Time Stamp
22 752	((((707/1 707/3 707/4 707/104$2 701/200 701/201 701/206 701/208).ccls.) and map$4 and ((latitude and longitude) or coordinates!)) and ((poi or (point adj of adj interest) or business or company or corporat$3 or shop or store! or landmark) with (information or info or summary or abstract or url or ((web or www or internet or IP) adj address) or bubble))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/09 19:02
23 409	(((((707/1 707/3 707/4 707/104$2 701/200 701/201 701/206 701/208).ccls.) and map$4 and ((latitude and longitude) or coordinates!)) and ((poi or (point adj of adj interest) or business or company or corporat$3 or shop or store! or landmark) with (information or info or summary or abstract or url or ((web or www or internet or IP) adj address) or bubble)) and server	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/09 19:02

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269 24	(((((707/1 707/3 707/4 707/104$2 701/200 701/201 701/206 701/208).ccls.) and map$4 and ((latitude and longitude) or coordinates!)) and ((poi or (point adj of adj interest) or business or company or corporat$3 or shop or store! or landmark) with (information or info or summary or abstract or url or ((web or www or internet or IP) adj address) or bubble)) and server) and ((click$3 or select$3 or highlight$3 or cursor) with (area or building or shop or company or business or landmark or point! or coordinates or (latitude near1 1	USPAT; US-PGPUB; 2003/09/09 EPO; JPO; IBM_TDB 19:05	

Hits	Search Text	DBs	Time Stamp
25 161	(((((((707/1 707/3 707/4 707/104$2 701/200 701/201 701/206 701/208).ccls.) and map$4 and ((latitude and longitude) or coordinates!)) and ((poi or (point adj of adj interest) or business or company or corporat$3 or shop or store! or landmark) with (information or info or summary or abstract or url or ((web or www or internet or IP) adj address) or bubble)) and server) and ((click$3 or select$3 or highlight$3 or cursor) with (area or building or shop or company or business or landmark or point! or coordinates or (latitude near1 longitude)))) an	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/10 11:46

Hits	Search Text	DBs	Time Stamp
26 5	((((((((707/1 707/3 707/4 707/104$2 701/200 701/201 701/206 701/208).ccls.) and map$4 and ((latitude and longitude) or coordinates!)) and ((poi or (point adj of adj interest) or business or company or corporat$3 or shop or store! or landmark) with (information or info or summary or abstract or url or ((web or www or internet or IP) adj address) or bubble)) and server) and ((click$3 or select$3 or highlight$3 or cursor) with (area or building or shop or company or business or landmark or point! or coordinates or (latitude near1 longitude)))) and @ad<=20010131) and ((documen	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/09 19:06

Hits	Search Text	DBs	Time Stamp
63	((((((((707/1 707/3 707/4 707/104$2 701/200 701/201 701/206 701/208).ccls.) and map$4 and ((latitude and longitude) or coordinates!)) and ((poi or (point adj of adj interest) or business or company or corporat$3 or shop or store! or landmark) with (information or info or summary or abstract or url or ((web or www or internet or IP) adj address) or bubble))) and server) and ((click$3 or select$3 or highlight$3 or cursor) with (area or building or shop or company or business or landmark or point! or coordinates or (latitude near1 longitude)))) and @ad<=20010131 and ((three adj dimension$2) or (US-6529909-B1.DID. adj dimension$2) or (US-6529909-B1.DID. adj dimension$2) or three-dimension$2 or 3-dimension	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2003/09/10 11:48
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1   GPS-based geographic addressing, routing, and resource discovery   82%
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   Communications of the ACM April 1999
   Volume 42 Issue 4

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   Masaru Kitsuregawa , Takahiko Shintani , Iko Pramudiono
   Australian Computer Science Communications , Proceedings of the workshop on Information technology for virtual enterprises January 2001
   Volume 23 Issue 6
   Web mining can be classified into two categories, Web access log mining and Web structure mining. We performed association rule

mining and sequence pattern mining against the access log which was accumulated at NTT Software Mobile Info Search portal site. Detail web log mining process and the rules we derived are reported in this paper. The parallel association rule mining is explored on large scale PC cluster system. Parallelism is key to improve the performance. We achieved substantial speed u ...

3 Distributed systems using CORBA and Ada 80%
Victor Giddings
ACM SIGAda Ada Letters September 1996
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4 A high-performance Web-based system design for spatial data 77%
accesses
Shu-Ching Chen , Xinran Wang , Naphtali Rishe , Mark Allen Weiss
Proceedings of the eighth ACM international symposium on Advances in geographic information systems November 2000

With the increasing use of geographical data in real-world applications, Geographic Information Systems (GISs) have recently emerged as a fruitful area for research. Nowadays, a GIS can be combined with World Wide Web (WWW) techniques to provide information to a multitude of users. A high-performance web-based GIS, called TerraFly, has been developed in order to provide web-based GIS accesses to the general public. The design of TerraFly considers three major aspects including system architec ...

5 Virtual environments for geographic visualization: potential and 77%
challenges
Alan M. MacEachren , Robert Edsall , Daniel Haug , Ryan Baxter , George Otto , Raymon Masters , Sven Fuhrmann , Liujian Qian
Proceedings of the 1999 workshop on new paradigms in information visualization and manipulation in conjunction with the eighth ACM internation conference on Information and knowledge management November 1999
Virtual environment (VE) technologies have considerable potential to extend the power of information visualization methods, and those of

scientific visualization more broadly. Our specific focus here is on VE technologies as a medium for geographic visualization and on some of the challenges that must be addressed if the potential of VE is to be realized in this context.

6 Constant density visualizations of non-uniform distributions of data   77%
Allison Woodruff , James Landay , Michael Stonebraker
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Proceedings of the sixth international conference on Information and knowledge management January 1997

9 The BUCKY object-relational benchmark   77%
Michael J. Carey , David J. DeWitt , Jeffrey F. Naughton , Mohammad Asgarian , Paul Brown , Johannes E. Gehrke , Dhaval N. Shah
ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data June 1997
Volume 26 Issue 2
According to various trade journals and corporate marketing machines, we are now on the verge of a revolution—the object-relational database revolution. Since we believe that no one should face a revolution without appropriate armaments, this paper presents BUCKY, a new benchmark for object-relational database systems. BUCKY is a query-oriented benchmark that tests many of the key features offered by object-relational systems, including row

types and inheritance, references and path e ...

10 A spatial approach to organizing and locating digital libraries and their 77%
content
Jason Orendorf , Charles Kacmar
Proceedings of the first ACM international conference on Digital libraries April 1996

11 The SEQUOIA 2000 storage benchmark   77%
Michael Stonebraker , Jim Frew , Kenn Gardels , Jeff Meredith
ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data June 1993
Volume 22 Issue 2
This paper presents a benchmark that concisely captures the data base requirements of a collection of Earth Scientists working in the SEQUOIA 2000 project on various aspects of global change research. This benchmark has the novel characteristic that it uses real data sets and real queries that are representative of Earth Science tasks. Because it appears that Earth Science problems are typical of the problems of engineering and scientific DBMS users, we claim that this benchmark represents ...

12 Discovering shared interests using graph analysis   77%
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    Germano Leichsenring , Kazutoshi Sumiya , Kuniaki Uehara
    Proceedings of the eighth ACM international symposium on Advances in geographic information systems November 2000

    We propose a graphical BBS which can handle the user's current location. In the system, a BBS room is related to a real object. Each BBS comment has a valid time and an influence area decided automatically. The user's location then influences the system based on the user's movements to display comments on the user's screen. The

influence area changes according to external events such as emergencies to express the importance and area of effect of the comment at the present time. Furthermore, w ...

2 GPS-based geographic addressing, routing, and resource discovery   82%
Tomasz Imieli?ski , Julio C. Navas
Communications of the ACM April 1999
Volume 42 Issue 4

3 Location-aware mobile applications based on directory services   82%
Henning Maaß
Proceedings of the third annual ACM/IEEE international conference on Mobile computing and networking September 1997

4 Communication through virtual active objects overlaid onto the real   80%
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Hiroyuki Tarumi , Ken Morishita , Yusuke Ito , Yahiko Kambayashi
Proceedings of the third international conference on Collaborative virtual environments September 2000

5 OGC: user-mediated technology drives vendor opportunity   80%
Lance McKee
StandardView December 1996
Volume 4 Issue 4
A market can be made more open, more active, and more responsive to buyers and sellers if it is made more organized. The Open GIS Consortium offers a model for organizing business in rapidly advancing technology markets. “Information Communities,” groups of users with common needs, can inject requirements into an open technical committee process that produces a specification for an open interface that gives users access to diverse technologies (and related data) from all complia ...

6 PixelFlow: the realization   80%
John Eyles , Steven Molnar , John Poulton , Trey Greer , Anselmo Lastra , Nick England , Lee Westover

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7 Distributed systems using CORBA and Ada   80%
Victor Giddings
ACM SIGAda Ada Letters September 1996
Volume XVI Issue 5

8 Some social implications of ubiquitous wireless networks   77%
Marc A. Smith
**ACM SIGMOBILE Mobile Computing and Communications
Review** April 2000
Volume 4 Issue 2
Wireless computer networks and the devices to communicate with
them are about to become ubiquitous. A profusion of devices is likely
to emerge quickly in specialized form factors, from handhelds to
cheap, disposable sensors. Groups of people using these tools will gain
new forms of social power, ways to organize and coordinate their
interactions and exchanges just in time and just in place. Using these
tools, people will be able to collectively construct a range of resources
that were too diffic ...

9 A high-performance Web-based system design for spatial data   77%
accesses
Shu-Ching Chen , Xinran Wang , Naphtali Rishe , Mark Allen Weiss
**Proceedings of the eighth ACM international symposium on
Advances in geographic information systems** November 2000

With the increasing use of geographical data in real-world
applications, Geographic Information Systems (GISs) have recently
emerged as a fruitful area for research. Nowadays, a GIS can be
combined with World Wide Web (WWW) techniques to provide
information to a multitude of users. A high-performance web-based
GIS, called TerraFly, has been developed in order to provide
web-based GIS accesses to the general public. The design of TerraFly
considers three major aspects including system architec ...

10 W-mail: an electronic mail system for wearable computing environments   77%

Hirotaka Ueda , Masahiko Tsukamoto , Shojiro Nishio
Proceedings of the sixth annual international conference on Mobile computing and networking August 2000
This paper describes an e-mail system for wearable computing environments. In this system, we extend the conventional mail format and the server/client(browser) architecture by considering the specific features of wearable computing environments, i.e., full time operation, hands-free use of computer, and close relationship to our daily life. A mail author can specify the behavior of his/her mail by embedding several useful commands in the mail. A user can specify in the mail various conditi ...

11 Whistling in the dark: cooperative trail following in uncertain localization space   77%

Richard T. Vaughan , Kasper Støy , Gaurav S. Sukhatme , Maja J. Matari?
Proceedings of the fourth international conference on Autonomous agents June 2000

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Alan M. MacEachren , Robert Edsall , Daniel Haug , Ryan Baxter , George Otto , Raymon Masters , Sven Fuhrmann , Liujian Qian
Proceedings of the 1999 workshop on new paradigms in information visualization and manipulation in conjunction with the eighth ACM internation conference on Information and knowledge management November 1999
Virtual environment (VE) technologies have considerable potential to extend the power of information visualization methods, and those of scientific visualization more broadly. Our specific focus here is on VE technologies as a medium for geographic visualization and on some of the challenges that must be addressed if the potential of VE is to be realized in this context.

13 Integrating the natural environment into a GIS for decision support   77%

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